

**AMENDMENTS TO THE CLAIMS**

1. (Currently amended) A gas seal structure comprising:  
a main seal means that is made of rubber and is disposed between two seal surfaces;  
  
a sub-seal means that is made of resin and is disposed between the two seal surfaces, the sub-seal means being located closer to a higher-pressure region than the main seal means and being provided with a concave groove; and  
  
a pressure variation reducing means that is disposed between the main seal means and the sub-seal means and has a variation reducing space connected to a gap formed between the two seal surfaces and having a volume that is able to inhibit occurrence of a blistering phenomenon in the main seal means.
2. (Original) The gas seal structure according to claim 1, wherein the sub-seal means is disposed such that the concave groove opens toward the higher-pressure side region.
3. (Original) The gas seal structure according to claim 1, wherein the sub-seal means is disposed such that the concave groove opens toward a lower-pressure side region.